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SMIRHOV, Ye.V.; KONOVALOVA, N.A.; PEN'KOV, Ye., red.; LEBEDEV,
A., tekhn.red.

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AKIMOV, N.I.; VOLKOV, S.P.; KONOVALOVA, N.A.; OSINOVSKAYA, R.I.; PLISKO, Yu.Yu.; SEVEROV, N.N.; STEPANOV, L.A.; SHCHUKIN, V.Ya.; VORONI-CHEV, M.P., red.; TSARENKO, A.P., red.; VERINA, G.P., tekhn.red.

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Expansion of railroad transportation in the German Democratic Republic. Zhel.dor.transp. 42 no.4:89-92 Ap '60.

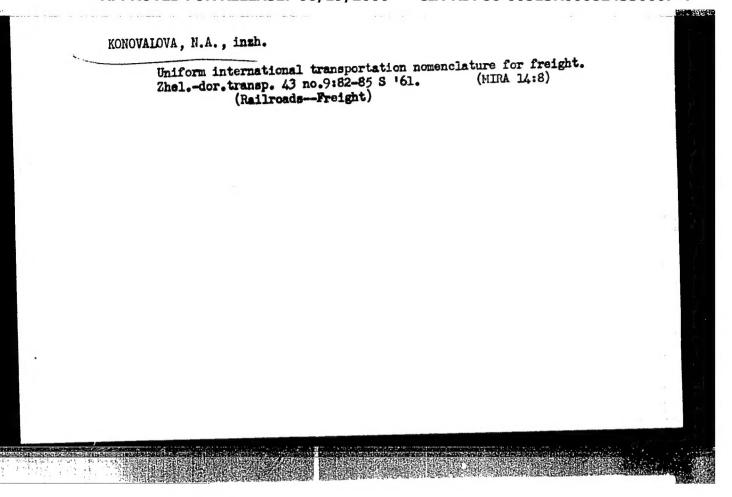
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1. Is laboratorii 1-y Hovocherkasskoy gorodskoy bol'nitsy (glavnyy vrach M.S. Kalyushnaya).

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KONOVALOVA, N.G.; NAUMOVA, Ye.K.; RZHEVSKAYA, G.F.; TIMEYEVA, S.M.

Bactericidal effect of organophosphorus preparations and antibiotics on staphylococci of the genitals. Nauch. trudy Kaz. gos. med. inst. 14:207-208 '64. (MIRA 18:9)

l. Kafedra mikrobiologii (zav. - dotsent Z.Kh.Karimova) i kafedra farmakologii (zav. - dotsent T.V.Raspopova) Kazanskogo meditsinskogo instituta.

KONOVALOVA, N. I.

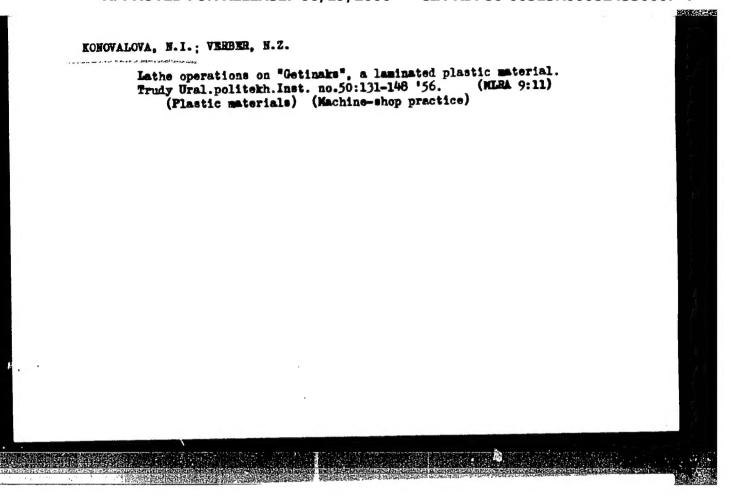
1492 Nekotoryye voprosy obrabotki tocheniyem sloistykh plasticheskikh mass. Sverd1492 Nekotoryye voprosy obrabotki tocheniyem sloistykh plasticheskikh mass. Sverd1695 Nekotoryye voprosy obrabotki tocheniyem sloistykh plasticheski tocheniyem sloistykh plasticheski tocheniyem slois

SO: Knizheya Letopis', Vol. 1, 1955

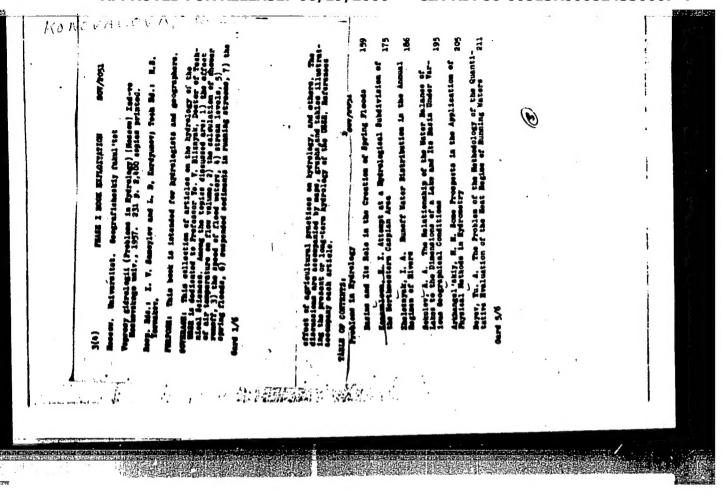
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HEFANI, N.F., kand. tekhn. nauk; KONOVALOVA. N.I., kand. geograf. nauk

Formulas for estimating rain-water infiltration. Trudy OGMI no.15: 93-102 '58. (MIRA 12:7)

1. Odesskiy gosudarstvennyy universitet.
(Soil percolation)

KONGVALOVA, N. I

Seliger, Lake

Lake Seliger. Vop. geog., 26, 1951

9. Monthly List of Russian Accessions, Library of Congress, April 1958, Unclassified

Kinetic characteristics of the antitumoral activity of chemical compounds of various classes. Dokl. AN SSSR 143 no.3:737-740 Mr. 152. (MIRA 15:3)

1. Institut khimicheskoy fiziki AN SSSR. 2. Chlenkorrespondent AN SSSR (for Emanuel'.) (Cytotoxic drugs)

EMANUEL', N.M.; DRONOVA, L.M.; KONOVALOVA, N.P.; MAYZUS, Z.K.; SKIBIDA, I.P.

Antileukemic effect of 2,6-di-tert.-butyl-4-methylphenol (ionol). Dokl. AN SSSR 152 no.2:481-484 S '63. (MIRA 16:11)



L 59350-65

ACCESSION NR: AP5019335

UR/0020/64/157/003/0707/0709

AUTHOR: Konovelova, N. P.; Bogdanov, G. N.; Miller, V. B.; Neyman, H. V.; 14
Rozentsev, E. G.

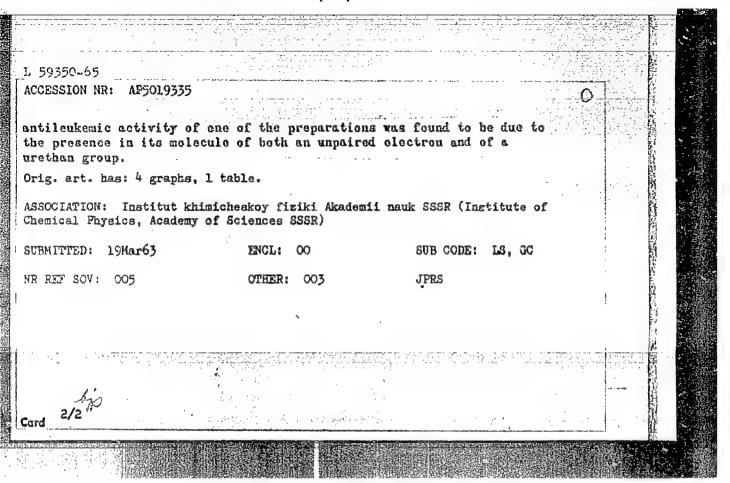
TITLE: Antitumor activity of stable free radicals

SOURCE: AN SSSR. Doklady, v. 157, no. 3, 1964, 707-709

TOPIC TAGS: biochemistry, neoplasm

ABSTRACT: The antitumor activity of free radicals was studied in the light of literature data indicating that a vital role in the mechanism of the antitumor action of inhibitors of radical processes is played by the action of comparatively stable free radicals formed from the inhibitors. Stable free radicals of a number of 4-substituted 2,2,6,6-tetramethylpiperidine oxides were investigated by a kinetic method of determining antitumor effectiveness. The kinetics of the changes in the weight of the spleen, number of leukocytes and hemocytoplasts per cubic millimeter of blood and percent content of hemocytoplasts in the bone marrow were studied in mice of the C57DL line with grafted leukomia from the La etrain. Antileukemic activity was discovered in three free radicals; the

Card 1/2



EMANUEL', N.M.; KONOVALOVA, N.P.; BOGDANOV, G.N.; VASIL'YEVA, L.S.

Kinetics of the development of ascitic leukemia L-1210. Dok1. AN SSSR 160 no.6:1421-1423 F 165.

(MIRA 18:2)

1. Institut khimicheskoy fiziki AN SSSR. 2. Chlen-korrespondent AN SSSR (for Emanuel').

PANICH, R.M.; KONOVALOVA, N.V.; GONSOVSKAYA, T.B.; SANDOMIRSKIY, D.M.; VOYUTSKIY, S.S.

Properties of latexes prepared with the aid of nonionic stabilizers. Part 2: Butadiene-styrene latexes. Koll. zhur. 27 no.4:589-592 Jl-Ag '65. (MIRA 18:12)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V. Lomonosova. Submitted March 7, 1964.

KONONALOVA, N. Ye.

"Agrobiological Basis for the Elimination of Sclerotimia of Sunflowers." Cand Agr Sci, All-Union Sci Res Inst of Plant Protection; All-Union Order of Lenin Academy of Agricultural Sciences imeni V. I. Leningrad, 1955. (KL, No 11, Mar 55)

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RAYBININ, A.A.; KONOVALOVA, N.Ye.

Some syntheses based on glycyrrhetinic acid. Zhur.ob.khim.
32 no.2:644-646 F *62. (MIRA 15:2)

1. Leningradskiy gosudarstvennyy universitet. (Gdycyrrhetinic acid)

KONOVALOVA, N.Z., kand. sel'skekhozyaystvennykh nauk.

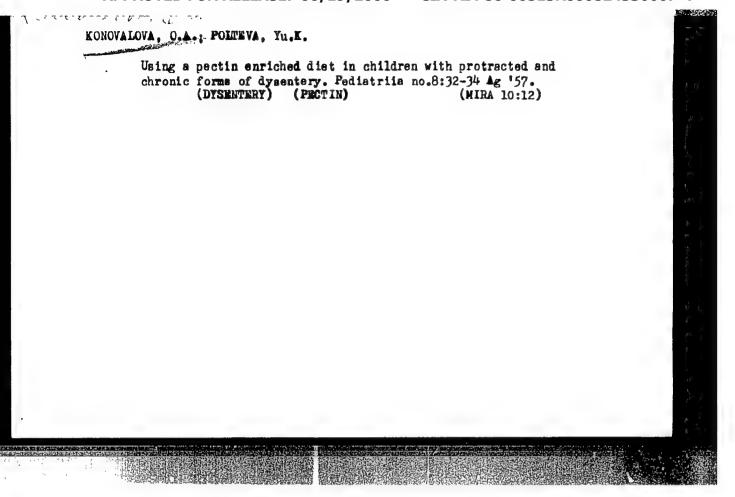
Bifect of bacterial fertilizers on increasing yield and en decreasing infection of sumflewers by sclerotinia. Zemledelie 7 no.2:89 F '59. (MIRA 12:3) (Sumflewers—Diseases and pests) (Fertilizers and manures)

KONOVALOVA, O. A.

"Effect of High Pressure on the Autolysis of Tissues." Sub 24 May 51, Acad Med Sci USSR.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 Mey 55



KONOVALOVA O A (Moskva)

Poctins and their use in therapeutic diets; review of literature [with summary in English]. Vop.pit. 16 no.2:3-9 Mr-Ep '57.

(MIRA 10:10)

1. Iz otdela pishchevoy tekhnologii (zev. - kandidat tekhnicheskikh nauk S.M.Bessonov) Instituta pitaniya AMN SSSR, Moskva.
(PECTINS

use in med. diets, review (Rus))

USSR/Pharmacology and Toxicology. Miscellaneous Preparations.

Abs Jour: Ref Zhur-Biol., No 19, 1958, 89977.

Author : Konovalova, O.A.; Poltiyeva, Yu. K.

Inst

Title

: On the Problem of Pectin Administration in the Treatment

of Dysentery.

Orig Pub: Vopr. pitaniya, 1958, 17, No 2, 47-50.

Abstract: Pectin was administered to 14 children suffering from dysentery of long duration and chronic course, in doses of 5 g three times daily (in combination with a diet). A favorable effect was obtained in the majority of cases. This drug is recommended as a supplemental means in the therapy of dysentery.

: 1/1 Card

Dept. Food Seelinday + Dept. Ind. Putrition Ams USSR

KONOVALOVA, O.A.: BESSONOV, S.M.

Composition of protopectine in certain vegetables. Vop.pit. 18 no.5:71-75 S-0 159. (MIRA 13:1)

1. Iz Otdela pishchevoy tekhnologii (zav. - kand.tekhn.nauk S.M. Bessonov) Instituta pitaniya AMN SSSR, Moskva.

(PECTINS chem.)

(VEGETABLES chem.)

KONOVALOVA, O.A.; KUBAYEVA, I.B.

Influence of pectin on some biochemical processes in the large intestine. Vop.pit. 19 no.1:49-54 Ja-F 160. (MIRA 13:5)

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Pectuse and polygalacturonase in some vegetables and fruits.
Vop. pit. 20 no.4:48-52 Jl-Ag '61. (MIRA 14:7)

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KONSURLOVA, O M.

KASHINA, L.P.; KONOVALOVA, O.N.

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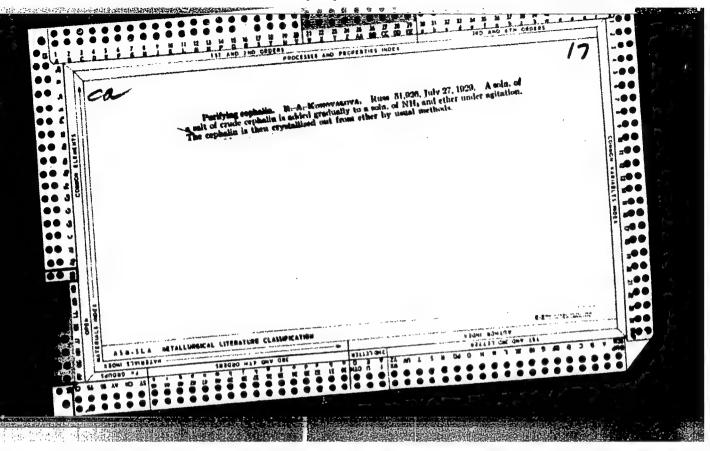
1. Nachal'nik otdela tekhnicheskogo kontrolya fabriki "Krasnaya Talka" (for Kashina). 2. Zavednyushchiy tekhnicheskoy bibliotekoy. (for Konovalova).

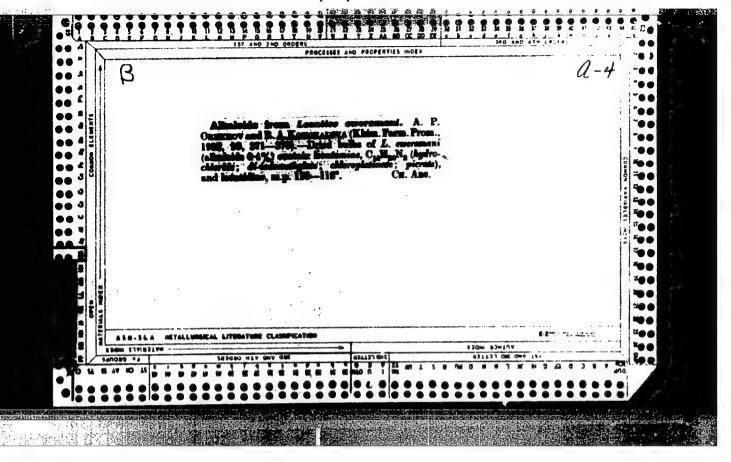
(Cotton finishing)

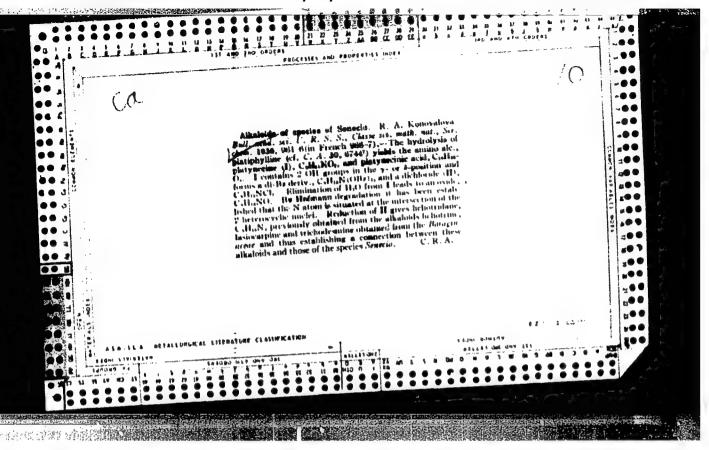
EMANUEL', N.M.; DEGNOVA, L.M.; GAGARINA, A.B.; KONOVATOVA, N.P.

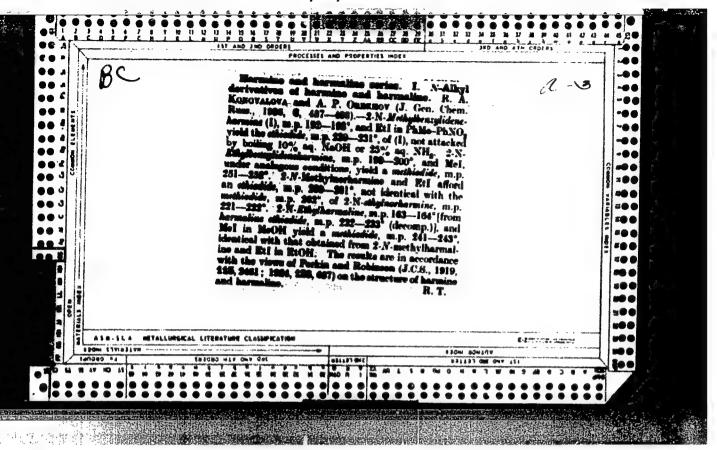
Critical phenomena in transplantable loucosis. Eckl. AN SSSE 155 no.1;220-223 Mr '64. (MIRA 17:4)

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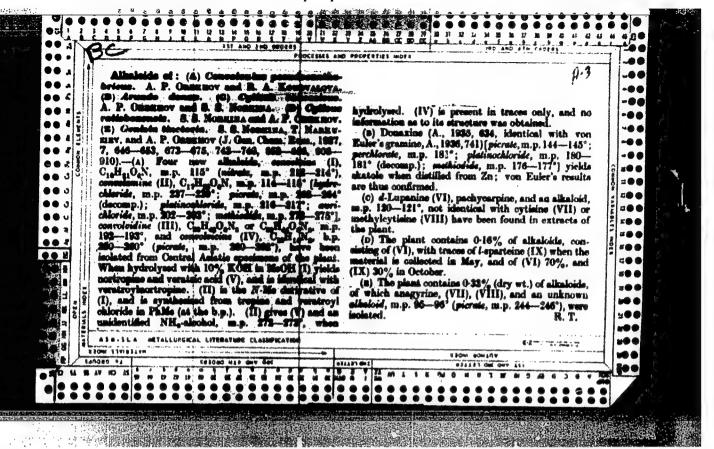


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Proskournina, N. P. et Orekhow, A. P. (p. 1256)

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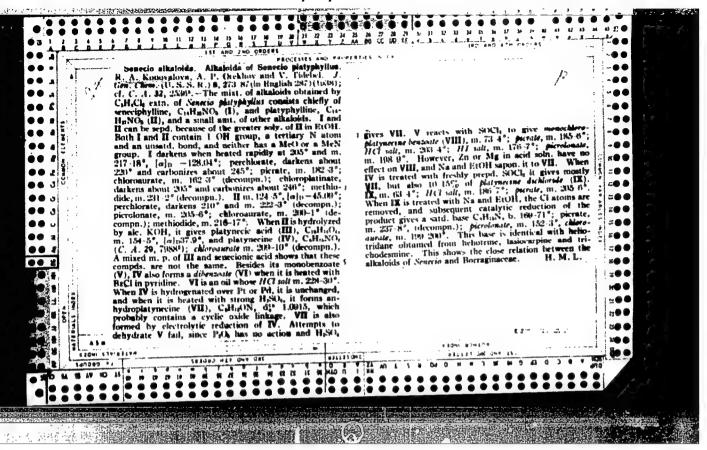


"Sur les alcalorides des coquelicots sauvages. I. Alcaloides du Fapaver orientale et Papaver armeniacum." R. A. Konowalowa, S. Jounoussow et A. P. Orekhow. (p. 1791)

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R. A. Konowalowa, S. Jounoussow et A. P. Orekhow. (p. 1797)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii). 1937, Volume 7, No. 12.



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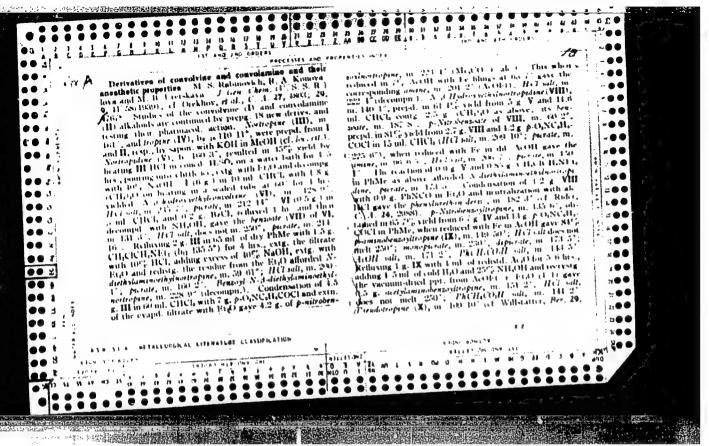
"Etude des alcaloides du senecen. Communication IV." R. A. Konovalova et

A. P. Orechov. (p. 395)

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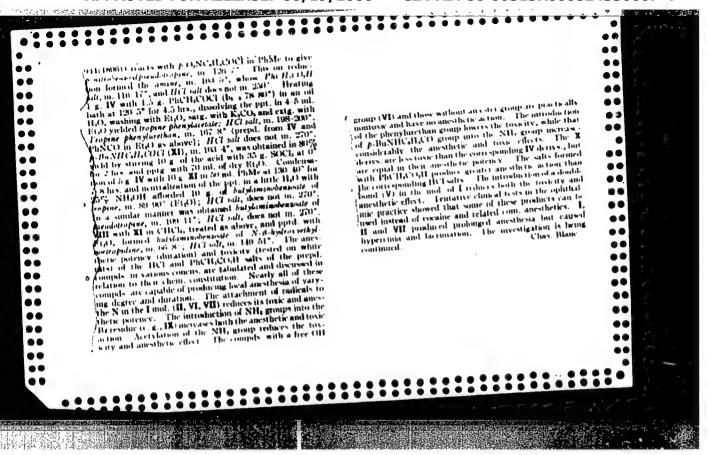
"Etude des alcaloides des especes du senecor. Communication V." R. A. Korovalova et A. P. Orechov. (p. 401)

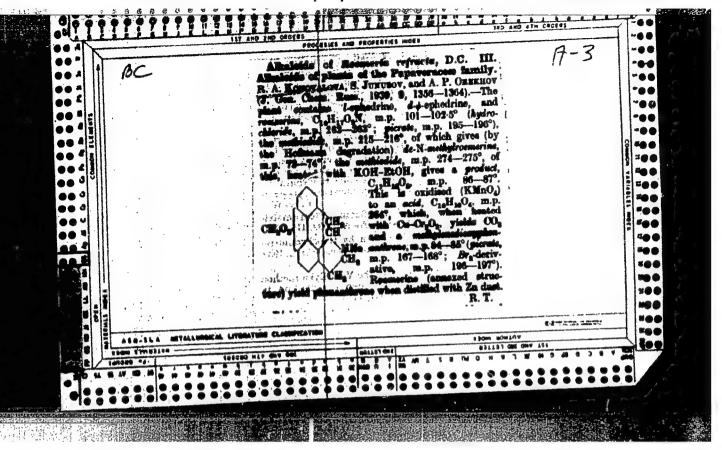
SO: Journal of Gener 1 Chemistry (Zhurnal Obshchai Klimii) 1938, Vol. 8, No. 5

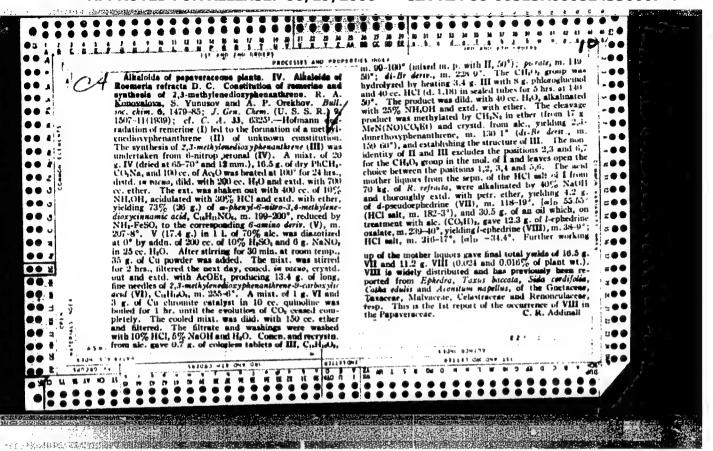


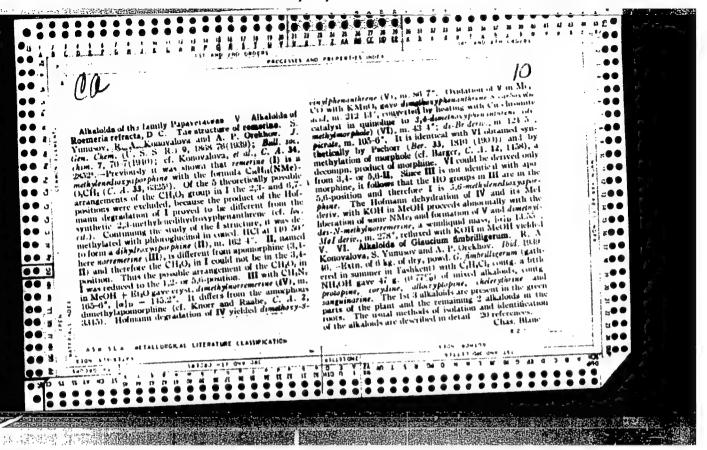
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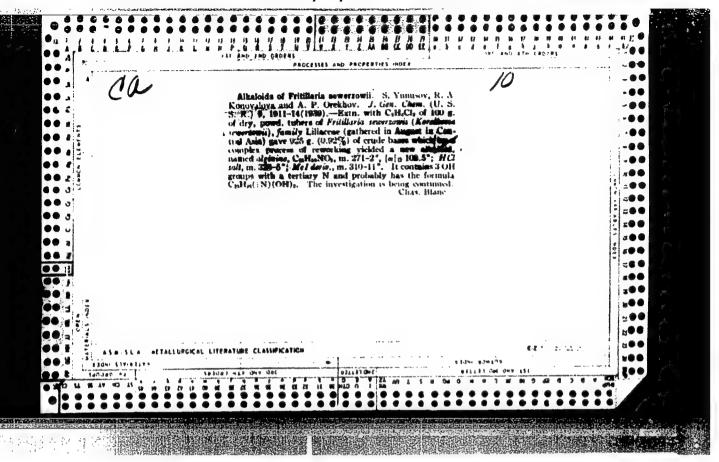
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- 1. KOMOVALOVA, R. A., YUNUSOV, S., OREKHOV, A. P.
- 2. USSR (600)

"On Alkaloids of Plants of the Family Papaveraceae. VI. The Alkaloids of the Glaucium Gimbrilligerum", Zhur. Obshch. Khim., 9, No. 21, 1939. Alkaloid Dept. All-Union Sci.-Res. Chemico-Pharmaceutical Inst. imeni S. Ordzhonikidze. Received 4 Jun 1939.

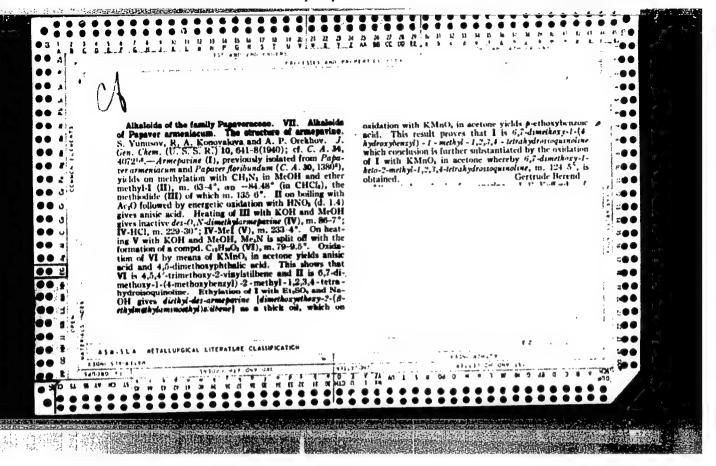
9. Report U-1626, 11 Jan 1952.

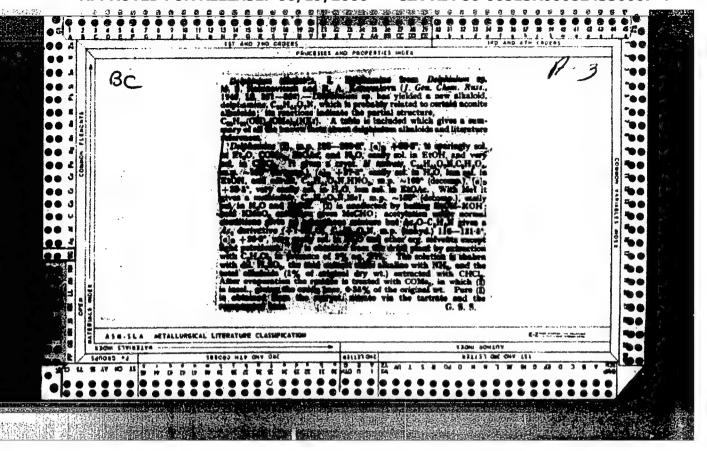


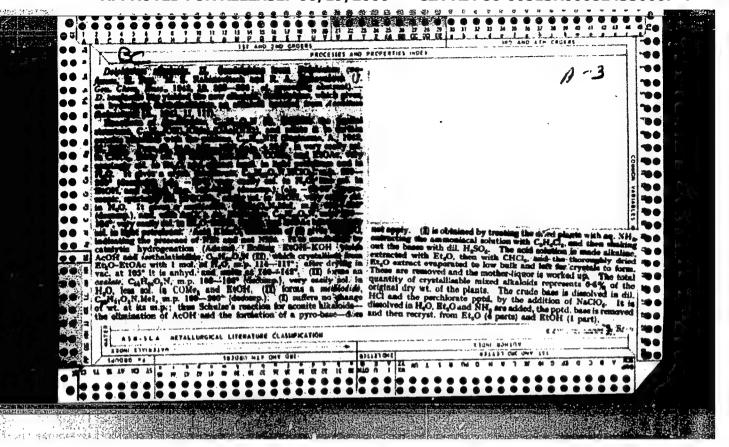
KONOVALOVA, R. A., OREKHOV, A. P.

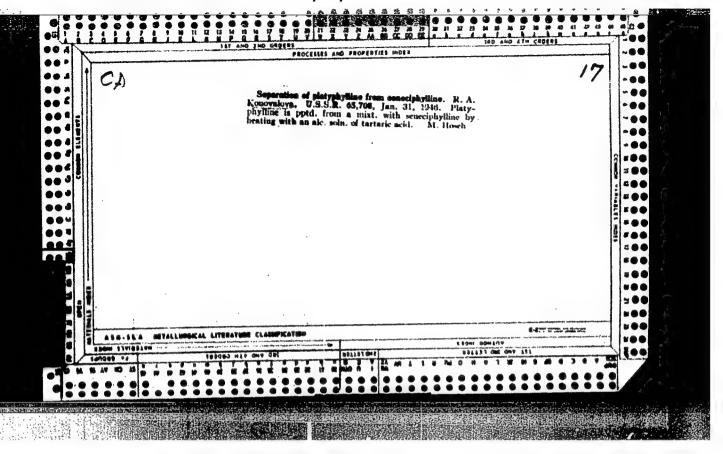
"On the Alkaloids Aconitum Talassicum--I. On the Alkaloid Forms Aconitum" Khur. Obshch. Khim. 10 No. 8, 1940, Alkaloid Dept. All-Union Chemico-Pharmaceutical Inst. Imeni S. Ordzhonikidze, Received 25, Oct. 1939.

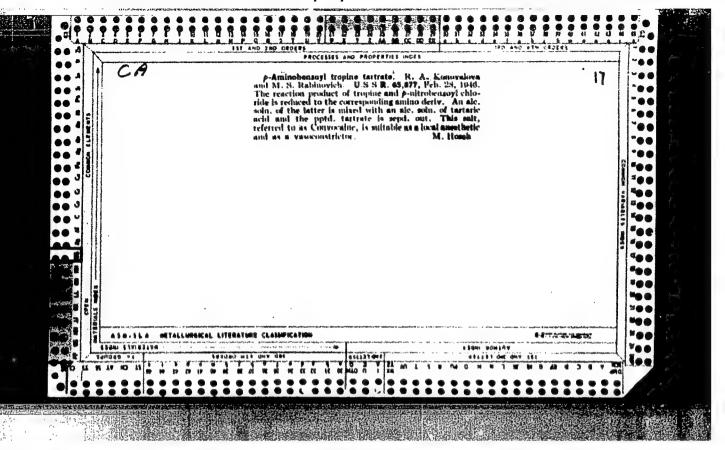
Report U-1627, 11 Jan. 52

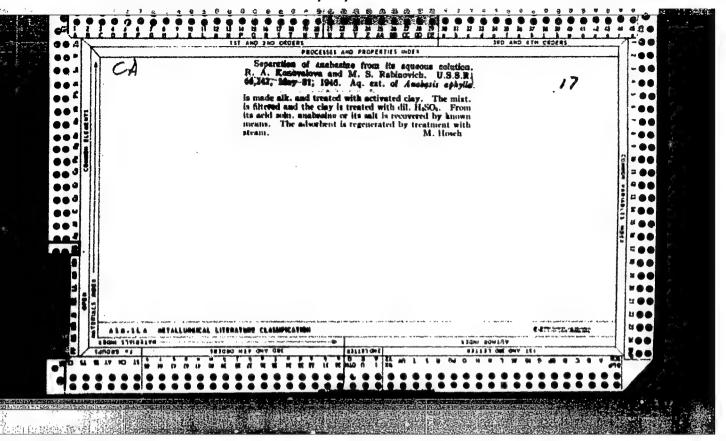


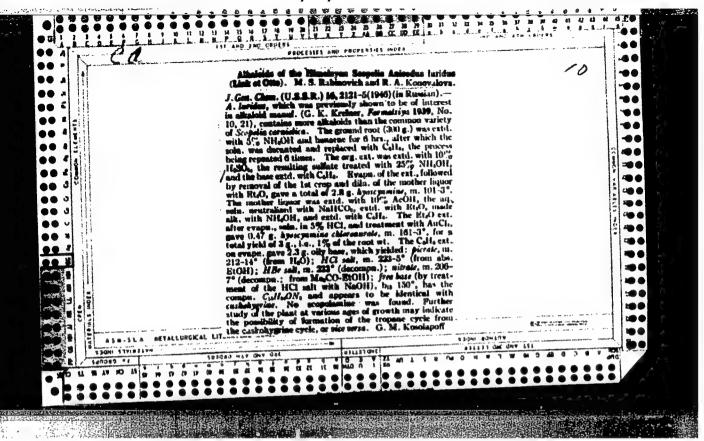


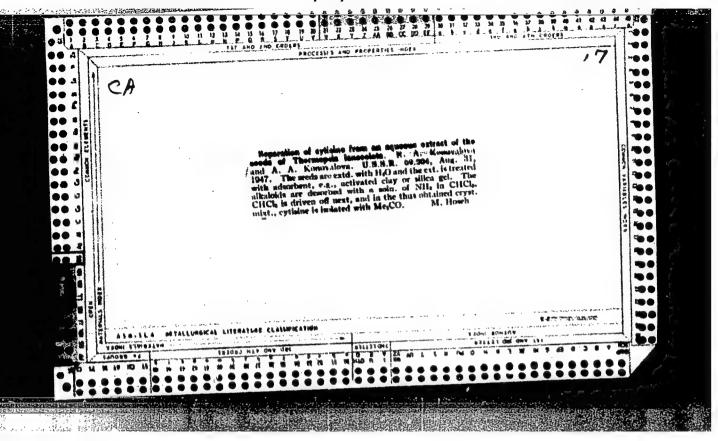


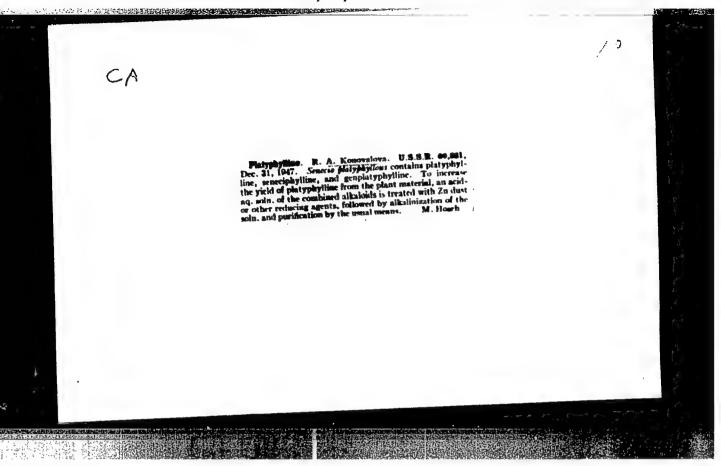












TOTY OVER	VA, R. Andrews		
The state of the s	FERCENCY AND FREDERINGS IN	PEGE E	
• 1	Alkaloids of wild species of the p	oney VII! Alka-	
· ·	laids of Danager heatteatum V. V.	Kiseicy and R. A.	
	Konovalova, J. Gen. Chem (175.8.R) (in Russiate); cf. C. A. 34, 7917; —	Prom P. Oracleatum	
	were isolated 4 phenolic bases to bracteine, Cullin M. West M.	stacharne erioewine.	
	C.H. i V Me) (OMe) (O/I) Arc about 3	angerterranean Parts	
	of the plant '5 kg . Are the exti with CHCh in a the	CHELLING DY 5 6	
	HisOs, and the latter neutral zed to with 40% NaOH, then made alk.	eak Congo red reac- with coacd, NH4OH	
4 1 1 2 1 4	and extd with Et.O (ext. A) and Chi	Ch (ext. B). Ext. A ,	
. ,	was coned, to 500 ml., treated twice NaOH (alk. ext. C) and 25 ml H ₂ O,	the ag soin, added	
	to the alk. solu., and the Et.O distd., g. ssothebaine. The alk. ext. C with	giving a total of 1/5	
# F # 1	white ppt., most of which dissolved to	a Et ₂ O (ext. D), and	
	the residue was dissolved in CHCl, (ext. D gave 2.1 g. oily resin, which a	olidified on grinding,	7
• • •	and on crystn. from hot EtOH gave 0.199°, while the mother liquor gave, on).2 g zsolkibarne, m	
· · ·	0-15 g agitamine, decomp, 195-0° a 15	ivana. Of the solvent	
-	from ext. E gave 1.9 g. resin, while HCl and 7 ml. H ₂ O gave 0.2 g. colorle	ess soud by want the	
2	acid soln, was washed with CHCls with NH ₁ OH, and extd. with Et ₁ O, the	(ext. G), made aix 30%	
1413	crude oripovine, m. 201°. Ext. G or isothebaine, m. 196-8°, while solid	i evadu. Fave U. l K.	
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KONOVALOVA, R. A.

PA 8/49T58

USSR/Chemistry - Alkaloids, in Plants Chemistry - Opium Alkaloids

May 48

"Alkaloids in the Plants of the Papaveraceae Family, IX," R. A. Konovalova, V. V. Kiselov, Alkaloidal Sec, Inst of Phar, Toxicol and Chemotherapy, 4 pp

"Zhur Obahch Khim" Vol IVIII (LIXX), No 5, 855

Devoted to oripavine. When it is methylated with diazomethane, thebaine is produced. When it is heated with dilute hydrochloric acid, a new phenol base, similar to thebaine, is obtained. Constitutional formulas included. Submitted 25 Oct 1946.

8/49158

KONOVALOVA, R.

Konovalova, P. and Danilova, A., Investigation of alkaloides of the type semecio.
VI. About the structure of seneciphyllin, p. 1198
Zhur. Obshchei Khimii, 1948, Vol. 18, No. 6.

Seneci-phyllin adds 4 atoms of hydrogen during catalytic hydrogenation and gives an animo acid - seneciphyllin ether of retro necanole. Seneciphyllin is a cyclic di ether of retro necine with a molecule of di basic seneci-phyllinic acid.

The Alkaloid Dept. of the Ordzhonikidze All Union Scientific Research Chemico-Fharmaceutical Institute . Moscow
April 21, 1947

KONGVALOVA, R. A.

Rabinovich, M. S. and Konovalova, P. A., On alkaloids from lipascus Azureus Schrenk. p. 1510.

From dipsaces azureus is evolved a crystalline alkaloid of composition $C_{10}H_{9}O_{2}N$ of a non-saturated character containing a lactonic grouping. Dehydroderivative $C_{10}H_{11}O_{2}N$ is obtained and dering oxydation $C_{9}H_{7}O_{4}N$ acid is evolved.

The Orzhonikidze All Union Sci. Res. Chemico-Pharmaceutical Inst. Lab. of Chemistry of Alkaloids, Moscow. April 12, 1947

SO: Journal of General Chemistry (USSR) 18, (80) No. '8 (1948)

KCHOVATOVA, R. A.

Rabinovich, M. S. and Konovalova, P. A., On alkaloids from "ipascus Azureus Schrenk.
p. 1510.

From dipsacts azureus is evolved a crystalline alkaloid of composition $C_{10}H_{9}O_{2}N$ of a non-saturated character containing a lactonic grouping. Dehydroderivative $C_{10}H_{11}O_{2}N$ is obtained and doring oxydation $C_{9}H_{7}O_{4}N$ acid is evolved.

The Orzhonikidze All Union Sci. Res. Chemico-Pharmaceutical Inst. Lab. of Chemistry of Alkaloids, Moscow. April 12, 1947

SO: <u>Journal of General Chemistry</u> (USSR) <u>18</u>, (80) No. '8 (1948)

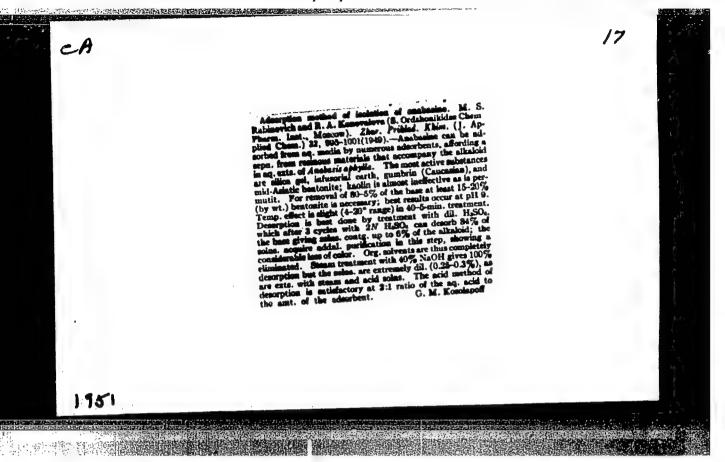
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Accelte alkalaids. IV. Delattine. M. S. Kabmovech and R. A. Konovalova. Zhar. Obshehel Kham. (J. Gen. Chem.) 19, 1387-95 (1949); cf. C.A. 34, 5159; 37, 3979; —Extr. of 10 kg. Delohisions so, (from Ky2-art in Fyanshen region) with (Cl)-Cl); and 5% NH₂011 and the usual treatment with dill. H₂SO₂, followed by extr. of the crude alkaloids with Ri₂O₂, then with CHCl₂, gav. 11 g. alkardiakolor from the Erd ext. on 11 g. from the CHCl₃ ext. The farmer could make crystal., but addn. of NaClO₂ solit. to its solit. in 5: HCl gave a viscous perchibate, which after rubbing with RCOH and H₂O gave pure delatablish for the crystal of the solit. In the per klorate, needles, in, 188 99° (from dil. RCOH). Cong. 1.5 H(c); the read alkaloid, in, 110 30° (from Ri₄D), bein 53.1° (RiUl), has the comput. Callada/N₂(c), and is amosphorate, therefore, in, 188 99° (from dil. RCOH). In the solit, and the cong. Callada/N₂(c), and is amosphorate, therefore, in, 198 10° (from Callada/NaClO), on m. 130 10° (from Callada/NaClO), when advanced by the congress of t

User/Chemistry - Alkaloids Chemistry - Esthbeline Structure of Isothbeline T. V. Kiselev, R. A. Konovalova, Alkaloid Dayt, Inst of Fharmacol, Toxicol, and Chemotherapy, 8 3/4 pp "Zhur Obabch Khim" Vol XIX, No 1 Cenclusions: (1) Methylating of isothbeline by Pahour and Karo: (2) First stage of Hoffmann degradation occurs under conditions set forth by Taker and Karo: (2) First stage of Hoffmann degradation occurs abnormally through splitting off of trimethylamine. Frevious explanations for shown incorrect. Alkaloids (Contd) The arrangement of substitutes in isothbeline were shown incorrect. Freence of a phenanthrene nucleus in isothbeline was confirmed by extraction of sellophanic acid. Submitted 9 Dec 46. 58/A9715



"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000824330007-4

KONOVALOVA, R. A.

FA 52/19758

USSR/Medicine - Gentianin

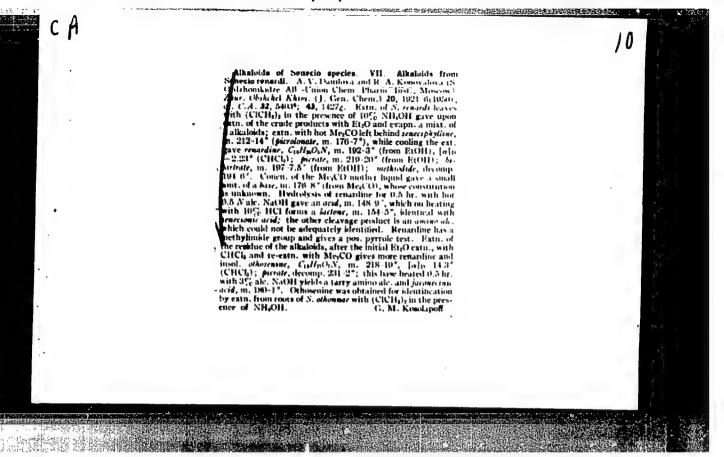
Micdicine - Chemistry, Physical

May 49

"Gentiana Kirilowi Alkaloids," N. F. Proskurnina, V. V. Shpanov, R.A. Konovalova, All-Union Sci Res Physicophar Inst imeni S. Ordzhonikidze, 2 pp

"Dok Ak Hauk SOSR" Vol LXVI, No 3

Structural formula of gentianin was established by oxidation with permanganate, entailing formation of isonicotinic acid. It was found to contain a vinyl group. Because of its structure it differs from well-known alkaloids of related substances. Submitted by Acad A. N. Nesmeyanov, 14 Mar 49.



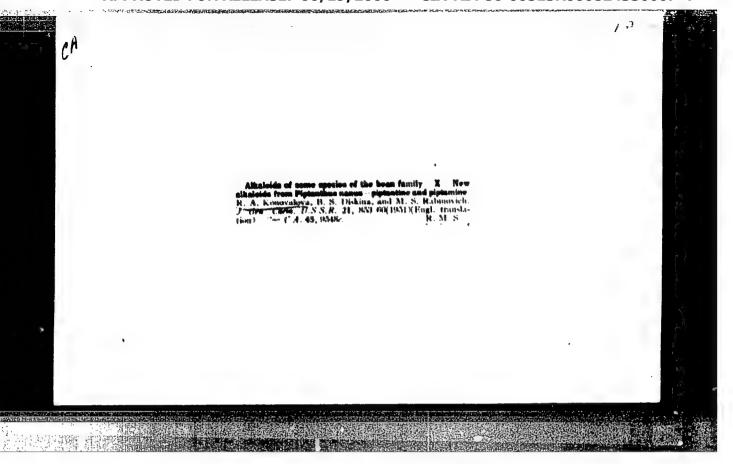
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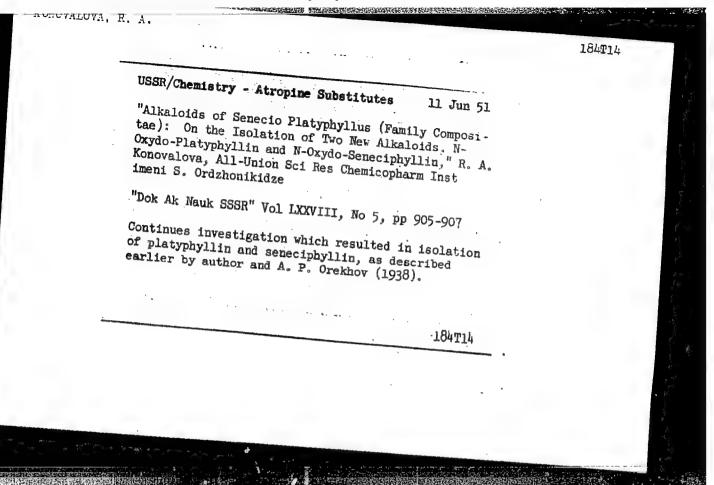
Structure of platynocinic and senecionic acids. A. V.

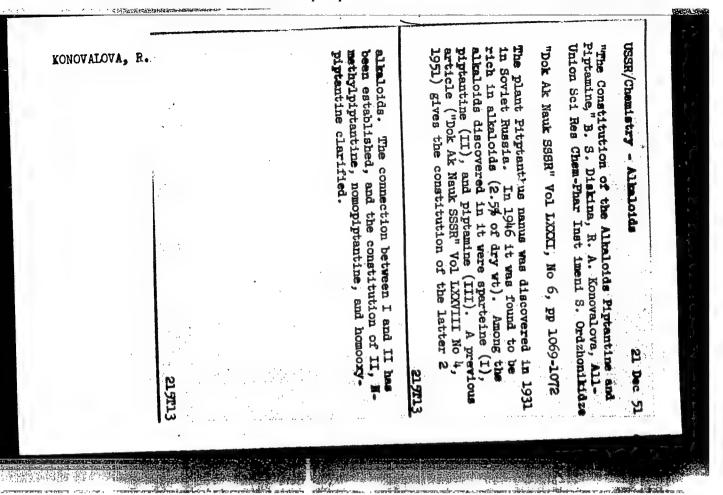
Dandova and R. A., Konovalova (S. Ordzboniklas AllDandova and R. A., Konovalova (S. Ordzboniklas AllUnion Chem.-Pharm. Inst., Moscow). Dokkady Abad.
Vineb S.S.S.R. 73, 315-17 (1930).—Ale, alk, hydrolysis of
platyphylline yields an unsath, acid, Collieb, in, 151-2°,
platyphylline yields an unsath, acid, Collieb, in, 151-2°,
platyphylline yields an unsath acid, Collieb, in, 151-2°,
platyphylline yields an unsath acid, Collieb, in, 151-2°,
platyphylline yields an unsath acid, 181, On beating
lut m. 133-5°, named phityperine acid (II). On beating
with 10°, HCl, both acids yields hardons and (III). Collieb, one of
m. 155-6°, [alp +33°; oncre beating above the m.p.
| with alkali yields only 1. Both acids take up 2 H, yielding a dihydro deric, which heated with 10°, HCl gives the
corresponding lactone, m. 133-4°, identical with the reduction product from III. Hence, II appears to be a cis and I
a trans isomer of same structure. Bromination of III in
CHCl, gave the di-lie deric, m. 162-3°, [a]p = 66.8°, while
establish the corresponding lactore, m. 142-13.8°,

10

Alkaloida of some species of the bean family. X New alkaloids from Piptanthus same piptantine and piptantine R. A. Komovalova, B. S. Bishma, and M. S. Rabimovich (S. Ordzhonikalze All-Union Chem.-Pharm. Inst., Moscow). Zhao, the help R. A. Komovalova, B. S. Bishma, and M. S. Rabimovich (S. Ordzhonikalze All-Union Chem.-Pharm. Inst., Moscow). Zhao, the help R. A. S. S. S. 4707. Exhaustive extr. of the upper parts of Piptonikas some with CH4Cls, in the upper parts of Piptonikas some with CH4Cls, in the presence of 10% Nt3CO. Incommon of the ext. with 10% Nt3CO. solution in 25% Nt4OH, tectment of the ext. with 10% Nt3CO. solution on a steam isoth gave on Yl. deep, and of 25% Nt4OH to the acid ext., and extr. of the R4O, then with HCCls, gave on conon. of the CHCls, all Incommon and the CHCls, R4O-extr. residue with 10% HSSO, washing with CHCls, R4O-extr. residue with 10% HSSO, washing with CHCls, R4O-extr. evalue with 10% HSOO to alk. Ritimus reaction, and cohorned by NH4OH treatment, gave an N-Me deriv. of the R4O extr. foi g. crude, or 23.1 g. piphonisme (1), m. 130-40% in R4CO and R4C







RABINOVICH, M. S. and KONOVALOVA,

"Anesthetizing Derivatives of Convoline and Convolemine," 1952.

U-1982, 22 May 52

Chem Abs

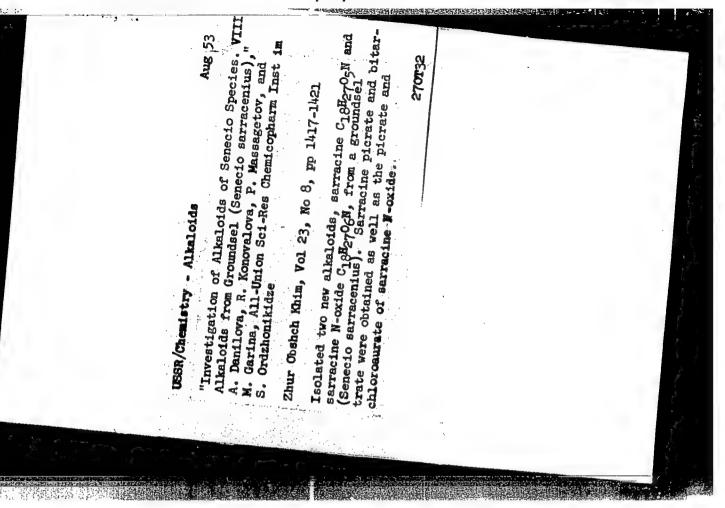
Viva 2.5 Jan 54

Normal is isothebalase.

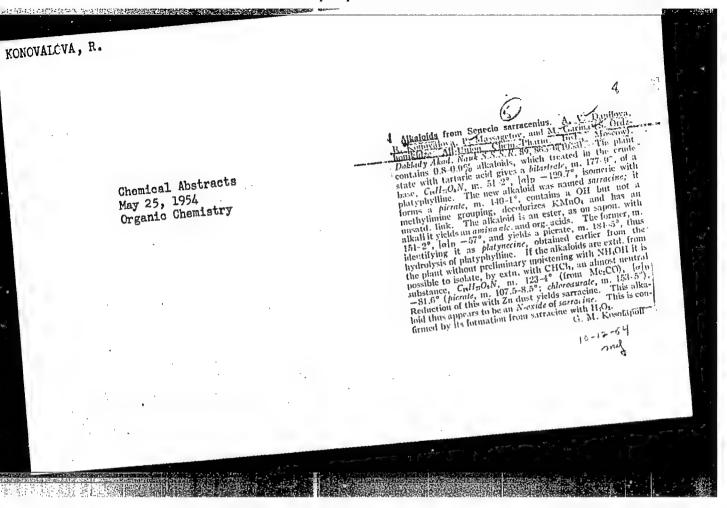
Normal isotheb

The 1st picrate, m. 124-1° (from EtOII, then from EtOAc), alkaloid, C₁₀II₁₀ON, named indicaine; the hiller picrate (m. 127-9° after purification), gave an alkaloid named indicame, C₁₀II₁₀ON, which is an unsatd, substance. Both latter alkaloids are liquids.

G. M. Kosolapoff



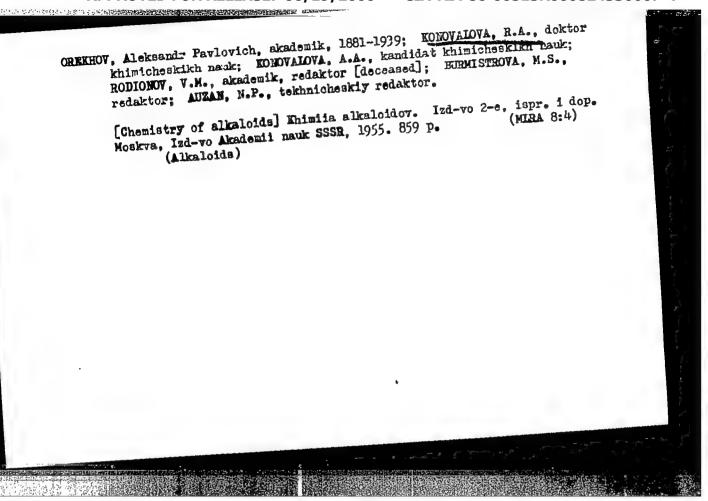
APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824330007-4"

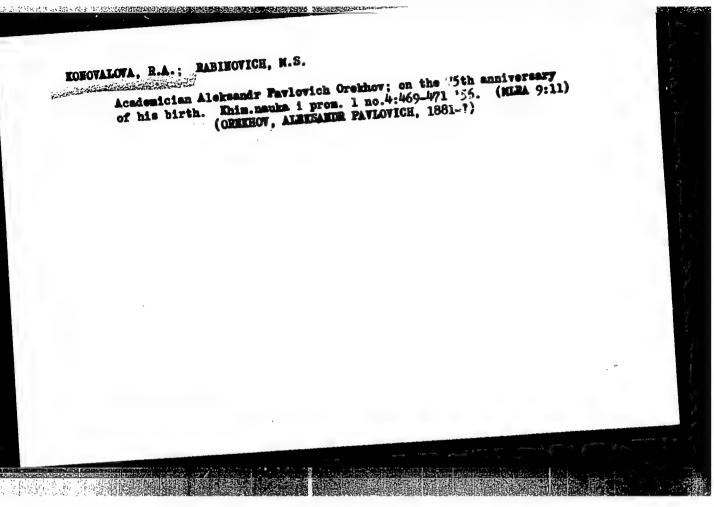


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5.3610,5.3900

77917 SOV/79-30-2-68/78

AUTHORS:

Arendaruk, A. P., Proskurnina, N. F., Konovalova, R. A.

TITLE:

Investigation of Alkaloids of Thesium Minkwitzianum Plants

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol 30, Nr 2, pp 670-676 (USSR

ABSTRACT:

The overground part of Thesium Minkwitzianum, an herbaceous plant collected in 1939 in the Turkomen SSR by P. S. Massagetov, was extracted with dichloroethane. They yielded 0.7% alkaloids (based on the dry weight of the plant), consisting of 0.5% of a saturated phe-

nolic base, $C_{34}H_{42}O_6N_2$, mp 254-256° C, which the authors named "thesin" (tezin). The remaining 0.2% alkaloids (after separation of thesin) gave a phenolic fraction,

(after separation of thesin) gave a phenolic fraction, from which a second new alkaloid was isolated. Its empirical formula corresponded best to $C_{17}H_{21}O_{3}N$, mp $38-40^{\circ}$ C; the authors named it "thesinin" (tezinin).

Finally, the non-phenolic fraction yielded an alkaloid with an empirical formula $C_{10}H_{11}O_2N$,

Card 1/2

Investigation of Alkaloids of Thesium Minkwitzianum Plants

77917 SOV/79-30-2-68/78

mp 124-125° C, which the authors named "thesinicin" (tezinitsin). The aqueous extract of the plant roots yielded a crystallic base $C_8H_{15}ON$, mp 39-40° C (identified as d-isoretronecanol), d-mannitol, succinic acid, and acid $C_4H_8O_4$. It was established that thesin is an ester of the dibasic acid $C_{18}H_{16}O_6$ (named by the authors "thesinic acid") and d-isoretronecanol and that thesinin is an ester of p-hydroxycinnamic acid and d-isoretronecanol. There are 1 table; and 4 references, 1 U.S., 1 German, 2 Soviet. The U.S. reference is: R. Adams, K. Hamlin, J. Am. Chem. Soc., 64, 2597 (1942).

ASSOCIATION:

Institute of Pharmacology and Chemotherapy, Academy of Medical Sciences USSR (Institut farmakologii i khimi-oterapii Akademii meditsinskikh nauk SSSR)

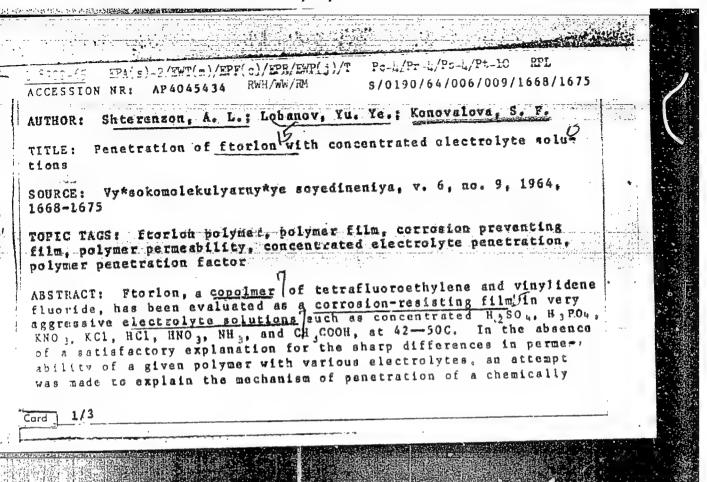
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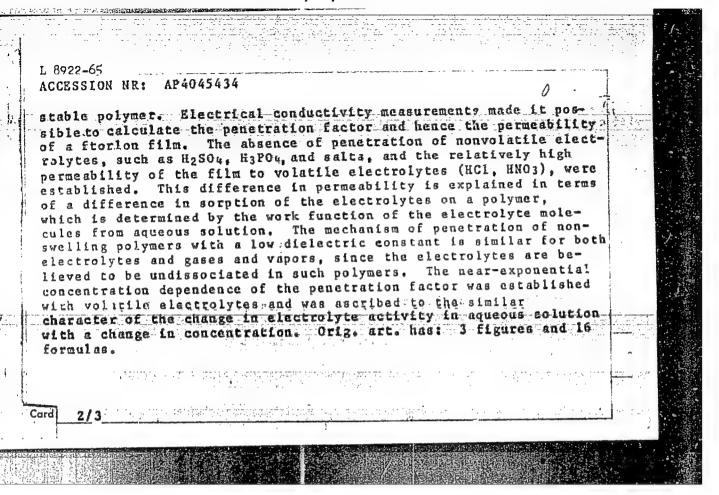
February 4, 1959

Card 2/2

OREKHOV, Aleksandr Pavlovich, akademik, [doceased]; KABACHNIK,
M.I., avademik, otv. red.; ECNOVALNUE, 2.1., prof., red.;
GAL'PERN, G.D., prof., red.; SHUKOVA, N.A.; red.

[Chemistry of the alkaloids of plants of the U.S.S.R.]
Khimita alkaloidov rastenii SSSR. Moskva, Nauka, 1965.
391 p. (MIRA 18:11)





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		HRL AP404	5434						
ASSOCIATION: Ural'akiy nauchno-issledovatel'akiy khimicheskiy in- stitut, Sverdiovak (Ural Scientific Research Institute of Chamistry)									
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s/062/61/000/004/001/008 B118/B208

1142, 1273, 1145

Toropov, N. A., Galakhov, P. Ya., and Konovalova, S. F. 15.2100

Silicates of rare earth elements. 2. Phase diagram of the AUTHORS:

binary system gadolinium oxide - silicon dioxide TITLE:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, PERIODICAL: no. 4, 1961, 539-543

TEXT: The lanthanum silicate 2La203.3SiO2 was synthesized and described for the first time by N. A. Toropov and I. A. Bondar' (Izv. AN SSSR, Otd. khim. n., 1959, 552), and its melting range in the system La₂0₃-Si0₂ was determined. The structure of gadolinium oxide described by C. E. Curtis, I. R. Johnson was not confirmed by these scientists. The purpose of the present work was therefore the study of the system $\mathrm{Gd}_2\mathrm{O}_3$ -SiO₂. The authors proceeded from a 98.2% gadolinium oxide containing 1.75% of other rare earths, and powdery rock crystal (99.90% SiO₂). The study was performed in different ways by an annealing and hardening method. The phases Card 1/7

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000824330007-4"

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S/062/61/000/004/001/008 B118/B208

Silicates of rare earth ...

give $2\text{Gd}_2\text{O}_3 \cdot 3\text{SiO}_2$ and a liquid. Table 3 presents formulas and temperatures of the invariant points of the system $\text{Gd}_2\text{O}_3\text{-SiO}_2$. The oxy-orthosilicates $\text{Gd}_2\text{O}(\text{SiO}_4)$, the orthosilicates $\text{Gd}_4(\text{SiO}_4)_3$, and the pyrosilicates $\text{Gd}_2\text{Si}_2\text{O}_7$ have been synthesized and described. The authors determined the ranges of separation into layers and the respective upper-limit critical point. Fig. 2 shows roentgenograms of the compounds. There are 5 figures, 3 tables, and 5 references: 2 Soviet-bloc and 3 non-Soviet-bloc. The three references to English-language publications read as fillows: F. P. Glasser, I. Warshaw, R. Roy, Amer.Ceram.Soc.Bull.38,109(1959); I. Warshaw, R. Roy, Amer.Ceram.Soc.Bull.38,169(1959); C. E. Curtis, I. R. Johnson, I.Amer.Ceram.Soc.40,15(1957).

ASSOCIATION: Institut khimii silikatov Akademii nauk SSSR (Institute of

Silicate Chemistry of the Academy of Sciences USSR)

SUBMITTED: January 18, 1960

Card. 3/7

s/062/61/000/008/001/010 26399 B117/B206

15.2230

Toropov, N. A., Galakhov, F. Ya., and Kenovalova, S. F.

AUTHORS:

Silicates of rare earths. Communication 5. Phase diagrams

TITLE:

of the systems Dy_2O_3 -SiO₂ and Er_2O_3 -SiO₂

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Ordeleniye khamicheskikh

nauk, no. 8, 1961, 1365-1371

TEXT: The authors investigated the binary systems Dy203-SiC2 and

 $\mathrm{Er_20_3}$ $\mathrm{Si0_2}$ according to the method explained in previous studies by N. A. Toropov et al. (Ref. 2: Izv. AN SSSR, Otd. khim. n., 1961, 559;

Refs. 1, 3, 4: Izv. AN SSSR, Otd. khim. n., 1960; 153; 12v. AN SSSR, Otd. khim. n., 1961, 544; Izv. AN SSSR, Otd. khim. N., 1961, Tig.) The specimens were prepared from dysprosium exide with a content of exides of other rare earths of less than 0.6 %. from erolan oxide (99.1%) with 0.85 % admixtures and from rock crystal powder (99.90 % S'03). Dyspresium

oxide annealed at 1000°C has a outical structure, refractive lidex of n=1.88 and melting point of $2210^{\circ}\text{C}_{\odot}$ After being alleyed in the electric

Card 1/8

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26399 \$/062/61/000/008/001/010 B117/B205

Silicates of rare earths...

arc, it disintegrates into powder even at very fast cooling. After this treatment, however, the specimen contains a certain emount of a hightemperature variety. This could be ascertained when comparing the roentgenograms of a specimen annealed at 1000cc and one alloyed in the arc, as well as microscopically. The mean refractive index of the hightemperature phase is n=1.975. On the basis of experiments, dysprosium oxide must be classified as belonging to the group of polymorphous exides of rare earths. This corresponds to the latest data by M. W. Shafar and R. Roy (Ref. 6; J. Amer. Ceram. Soc. 42, N 11 (1959)) Erbium cxide differs from dysprosium oxide by the fact that it does not disintegrate after being alloyed in the arc. The optical properties and resutgenograms of Er203 annealed at 1000°C and of that alloyed in the are are identical. Presumably, Er203 only exists in cubical form in the temperature range of from 1000°C up to the melt. The refractive index is n=1.95, the melting point 2290°C. The phase diagram of the system Dy203. SiG2 (Fig. 2) drawn up on the basis of the experimental annealing- and hardening results shows the existence of three compounds: Dy203.Si02, 2Dy203.3Si02 and Dy203.2Si02, Compounds of similar compositions were also found in the system Er203.Si02 Card 2/8

s/062/61/000/008/001/010 B117/B206

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(Fig. 3). The optical properties and density of the compounds produced are ontained in Table 3 and the calculated interplanar spaces in Table 4. The Silicates of rare earths... contained in Table 2 and the daludiated interplanar spaces in Table 4. If oxy-orthosilicates Dy20[SiO4] and Er20[SiO4] as well as the orthosilicates Dy4[SiO4]3 and Er4[SiO4]3 melt without decomposition. However, the latter two are only stable in a specific temperature range. Below this range, they decompose into oxy-orthosilicates and pyrosilicates. During melting, dysprosium pyrosilicate Dy₂[Si₂⁰7] decomposes into orthosilicate Dy4[Si04]3 and liquid. A great change of the properties of silicates of rare earths was first determined in erbium pyrosilicate Er [Si207]: contrast to silicates with a lower ordinal number (Y, La. Sm. Gd. Dy); it melts without decomposition and has a corresponding maximum on the phase diagram of Er₂0₃-Si0₂. Moreover, it differs from other pyrosilicates by eutectics between oxy-ortho- and orthosilicates of both systems and the eurectics between ortho- and pyrosilicates of the Ergo, Sto2 aystem could not be exactly ascertained, and are therefore marked on the phase diagrams

CIA-RDP86-00513R000824330007-4" APPROVED FOR RELEASE: 06/19/2000

TOROPOV, N.A.; GALAKHOV, F.Ya.; KONOVALOVA, S.F.

Rare earth silicates. Report No.5: Phase diagrams of t

Rare earth silicates. Report No.5: Phase diagrams of the system Dy2 03 - SiO and Er 03 - SiO Izv. AN SSSR. Otd. khim.nauk no.8:1365-1371 Ag 2.61. (MIRA 14:8)

1. Institut khimii silikatov AN SSSR.
(Dysprosium oxide)
(Erbium oxide)
(Silica)

S/062/62/000/005/001/008 B110/B101

AUTHORS: Toropov, N. A., Galakhov, F. Ya., and Konovalova, S. F.

TITLE: Silicates of rare-earth elements. 9. Solid solutions between yttrium and erbium silicates

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 5, 1962, 738-743

TEXT: The systems Y₂O₃·SiO₂ - Er₂O₃·SiO₂; 2Y₂O₃·JSiO₂ - 2Er₂O₃·JSiO₂, and Y₂O₃·2SiO₂ - Er₂O₃·2SiO₂ were investigated. The samples were produced from the respective oxides in accordance with I. A. Bondar' (Izv. AN SSSR, Otd. khim. n. 1962, J77; ibid., 1962, J83), heated in a platinum furnace and a vacuum microfurnace, and examined by microscope and X-ray analysis. Results: (1) The phase diagrams of diortho- and orthosilicates of yttrium and erbium are similar, and large zones of solid solutions are formed in both. (2) The interruption of reciprocal solubility is a small section in the middle of a few tenths percent. According to Rozebom, they belong to the 5th type of diagrams with solid

Card 1/3

\$/062/62/000/005/001/008 Silicates of rare-earth elements. 9. ... B110/B101

solutions. (3) There is a small field of primary crystallization of yttrium orthosilicate due to fusion of yttrium diorthosilicate during decomposition. The roentgenograms showed: (a) Pure yttrium silicates and their solid solutions with 40% erbium silicate display monotype roentgenograms. (b) If erbium silicate >60%, solid solutions form on the base of it. (c) Samples with equal silicate content (50%) yield a mixture of two solid solutions. (4) There is no interruption of solubility in exyorthesilicates $(Y_2O_3 \cdot SiO_2 - Er_2O_3 \cdot SiO_2)$. The liquidus curve of the continuous series of solid solutions has a minimum shifted toward erbium oxyorthosilicate (3rd Rozebom type). As the two elements belong to different structural sub-groups, the formation of a continuous solid solution can be explained by the low packing density of the structural elements. However, as in diortho and orthosilicate systems. the minimum also points to a tendency toward interrupting solubility. Different silicate types of the same (yttrium and erbium) rare-earth elements form diagrams of different types of solid solutions among one another. The slight difference (1.9%) of the ionic radii of yttrium and erbium, on the one hand, favors the formation of continuous solid Card 2/3

S/062/62/000/005/001/008
Silicates of rare-earth elements. 9. ... B110/B101

solutions, but the structural difference of yttrium and erbium silicates, on the other, is an obstacle to it. As a result, different types of silicates of the same rare-earth elements form either continuous or limited solid solutions among one another. There are 4 figures and 3 tables.

ASSOCIATION: Institut khimii silikatov Akademii neuk SSSR

(Institute of Silicate Chemistry of the Academy of

Sciences USSR)

SUBMITTED: October 31, 1961

Card 3/3

TOROPOV, N.A.; GALAKHOV, F.Ya; KONOVALCVA, S.F.

Rare earth silicate elements. Report No.9: Solid

solutions formed by yttrium and erbium silicates. Izv. AN SSSR.

Otd.khim.nauk no.5:738-743 My '62. (MIRA 15:6)

(Yttrium silicates) (Ebrium silicates) (Solid colutions)

L 17850-65 EMP(e)/EPA(s)-2/EWT(m)/EPF(n)-2/EPA(w)-2/T/EPA(bb)-2/EMP(b) Pab-10/Pq-L/Pt-10/Pu-L ASD(m)-3 WW/WH ACCESSION NR: AP4044698 S/0062/64/000/008/1373/1377

AUTHOR: Galakhov, F. Ya.; Konovalova, S. F.

TITLE: Liquation phenomena in the Al₂O₃-SiO₂ system Communication 1. Experimental data and their discussion

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 8, 1964, 1373-1377

TOPIC TAGS: alumina silica system, liquation, heat treatment, microliquation, transparent glass, opalescent glass, porcelain, x ray ionization, microhardness, mechanical strength

ABSTRACT: The unique structures formed by heat treatment in the Al₂O₃-SiO₂ system were apparently caused by microliquation, i.e., the formation of two liquids with very high mutual dispersion. Preliminary work indicated that a transparent glass containing 20-40% aluminal became opalescent after heating at 1300C for 1 hour; heating at 1600C gave a porcelain-like material in which the individual crystals were so fine they were not visible. Hence the conditions for

Card 1/3

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CIA-RDP86-00513R000824330007-4

L 17850-65 ACCESSION NR: AP4044698 3

liquation in the Al₂O₃-SiO₂ system were examined. Compositions containing 15-60 wt. % alumina were heat treated -- (1) heated prior to annealing to 150-200 degrees above the annealing temperature, cooled to the holding temperature, then quenched, or (2) heated at 1600C without previous remelting or subsequent quenching. Samples were subjected to microscopic, electron microscope, x ray innization examinations and microhardness testing. Microliquation was fixed in compositions of 20-60 wt. % Al₂O₃ after samples were annealed at temperatures above the liquidus temperature. It was believed one liquid would crystallize, catalysing crystallization of the less-readily crystallizable liquid, and then the Tyst allized areas would combine. Their structure and composition was similar, only their particle size differed, causing formation of coarse oval crystallized particles with fine ridges. The microhardness of these oval crystallized partiles was much higher than that of the surrounding glass, e.g., 845 vs. 645 kg/ mm. in a 50-50 Al₂O₃-SiO₂ glass annealed at 1850C for 30 seconds. This intreased mechanical strength indicates the possibility of obtaining pyroceramics. based on mullite which would probably have greater fire resistance due to the higher fusion temperature of the mullite. Orig. art. has: 1 figure.

Card 2/3

L 17850-65
ACCESSION NR: AP4044698
ASSOCIATION: None
SUBMITTED: 24Dec62 ENCL: 00
SUB CODE: MT NO REF SOV: 000 OTHER: 004

Card 3/3

GALAKHOV, F.Ya.: KONOVALOVA, S.F. Liquation phenomena in silicate melts. Dokl. AN SSSR 155 no.1: (MIRA 17:4)

122-124 Mr '64.

1. Institut khimii silikatov im. I.V.Grebenshchikova AN SSSR. Predstavleno akademikom N.N.Semenovym.

CIA-RDP86-00513R000824330007-4" APPROVED FOR RELEASE: 06/19/2000

GALAKHOV, F.Ya.; KONOVALOVA, S.F. Liquation phenomena in the system Al₂O₃ SiO₃. Report No 1: Experimental data and their discussion. Izv. AN SSSR. Ser. (MIRA 17:9) khim. no.8:1373-1377 Ag '64. 1. Institut khimii silikatov im. I.V. Grebenshchikova AN SSSR.

CIA-RDP86-00513R000824330007-4" APPROVED FOR RELEASE: 06/19/2000

SHTERENZON, A.L.; LOBANOV, Yu.Ye.; KONOVALOVA, S.F.

Penetration of concentrated electrolyte solutions through ftorlon.

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EVT (1)/EPF(n)=2/ETC(m) 12053-56 ACC NR. AP6001307 SOURCE CODE: UR/0363/65/001/008/1399/1402 AUTHOR: Galakhov, F. Ya.; Konovalova, S. F. ORG: Institute of Silicate Chemistry im. I.V. Grebenshchikov, Academy of Sciences SSSR (Institut khimii silikatoy Akademiya nauk SSSR) 21,44,55 TITLE: Liquation phenomena in the Li_O-TiO_-SiO_ system SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 8, 1965, 1399-1402 TOPIC TAGS: lithium oxide, titanium oxide, silicon dioxide, phase diagram ABSTRACT: In order to refine the position of the region of liquation on the phase diagrams of silicate systems, the Li₂O-TiO₃-SiO₃ system was studied as a typical example of a phase diagram in which the regions of macro- and microliquation need to be accurately defined. Samples prepared from Li₂CO₃, TiO₃, and SiO₃ were melted, annealed, and quenched, then their polished sections were examined under the microscope. Marked differences between the structures of the quenched samples made it possible to readily establish the boundary between the regions of macro- and microliquation, and the corresponding refined phase diagram was plotted (see Fig. 1). The region earlier thought to consist of two liquids is actually made up of two portions, and the region of ordinary liquation is bounded by an Li₂O content of 1-2% instead of the 20% indicated by the initial diagram. In the light of the establishment of the UDC: 541.123.3 Card

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